Serial No. 10/531,775   PD020097

REMARKS

Claims 1-11 remain pending in this application with claims 1 and 7 being amended by this response. Claims1 and 7 have been amended to clarify the types of network stations in a UPnP system. Support for these amendments can be found throughout the specification, and specifically on page 2, line 11 to page 3, line 15 and in Fig. 1. Therefore, applicants respectfully submit that no new matter is added by the amendments to claims 1 and 7.

Rejection of Claims 1-3,5-9 and 11 under 35 U.S.C. 102(b)

Claims 1-3, 5-9 and 11 are rejected under 35 U.S.C. 102(b) as being anticipated by Gandhi et al. (US 7,085,814 B1).

The present invention as claimed in claim 1 provides a method for monitoring audio/video connections hereinafter called AV connections which have been set up in a network of distributed stations. The network of distributed stations is networked with one another via at least one of a wire-free and a wire bus connection. At least two types of stations exist in the network, one being a control device for initiating, controlling and removing said AV connection and the other being a controlled device, in particular an AV server device or an AV renderer device. Between at least two controlled devices an AV connection can be set up. The controlled device station monitors to determine whether the station which is AV connected to it has sent a logging-off message and, if yes, the monitoring control device station autonomously ends the AV connection with the logged off station. Independent claim 7 contains similar features to those discussed above, and thus, all remarks presented herein also apply to claim 7.

Gandhi describes a general programmatic interface-to-network messaging adapter that exposes an object integration interface or application programming interface to applications on a controller device. The adaptor sends network data messages to invoke services or query status of a controlled device. The adapter maps application calls to the interface into network data messages according to service protocols of the controlled device. The adapter provides the interface suitable to any

- 5 -

Serial No. 10/531,775   PD020097

specific service of a controlled device based on a data description of the interface, and converts the application calls to network data messages based on a data description of a protocol and format for network data messages to interact with the specific service. Once the interface/messaging description is obtained, applications on the controller device can programmatically interact with the adapter, and the adapter then handles appropriate message exchanges with the service of the controlled device. (Abstract)

The Examiner asserts that the monitoring station in the present claimed invention is the same as the GENA subscriptions inside the UPnP system in Gandhi. The applicant respectfully disagrees. Gandhi neither discloses nor suggests "a controlled device type station [that] monitors to determine whether the station which is AV connected to it has sent a logging-off message and, if yes, said station autonomously ends the setting up of the AV connection with the station which is logged off" as recited in claim 1 of the present invention. Gandhi merely uses **control points** for GENA subscription event notifications (col. 22, lines 52-60). The control point is used to initiate the setup and removal of an AV connection. A controlled device will notify the control point of any state changes if the control point has subscribed to an event. If a controlled device is removed abruptly from the network, expiration values are used for removing the message and clearing the connection entries from the control point (col. 46, lines 56-63). Only control points can be subscribers for event notifications (col. 23, lines 42-43). In contrast, the present claimed invention uses a **controlled device** type to monitor and determine if an AV connecting station has logged off. The controlled device incorporates the ability of a control point device to monitor and determine log off messages for an AV connection (page 4, lines 4-24). Monitoring by the present claimed invention allows the clearing of connection entries to occur without a control device and at a much faster pace than the timeout values of Gandhi. Therefore, Gandhi neither discloses nor suggests "a controlled device type station [that] monitors to determine whether the station which is AV connected to it has sent a logging-off message and, if yes, said station autonomously ends the setting up of the AV connection with the station which is logged off" as recited in claim 1 of the present invention. Independent claim 7 contains similar features to those discussed above, and thus, all remarks presented herein also apply to claim 7.

- 6 -

Serial No. 10/531,775   PD020097

In view of the above remarks and amendments to the claims, it is respectfully submitted that Gandhi does not anticipate the present claimed invention. As claims 2, 3, 5, 6, 8, 9 and 11 are dependent on claims 1 and 7, respectively, it is respectfully submitted that these claims are also patentable for the same reasons as claims 1 and 7 discussed above. It is thus further respectfully submitted that this rejection is satisfied and should be withdrawn.

Rejection of Claims 4 and 10 under 35 U.S.C. 103(a)

Claims 4 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gandhi et al. (US 7,085,814 B1) in view of Rozenfeld et al. (US 7,191,239 B2).

Gandhi and Rozenfeld, when taken alone or in combination, neither disclose nor suggest "a controlled device type station [that] monitors to determine whether the station which is AV connected to it has sent a logging-off message and, if yes, said station autonomously ends the setting up of the AV connection with the station which is logged off" as recited in claim 1 of the present invention. Independent claim 7 contains similar features to those discussed above, and thus, all remarks presented herein also apply to claim 7.

Rozenfeld describes a method of managing a customized network connection application. The method includes generating a plurality of input interfaces to receive customization information pertaining to the customized network connection application. The customized information is stored as a profile associated with the customized network connection application. The customized network connection application is automatically generated utilizing the profile, and distributed to at least one recipient. (Abstract)

Gandhi (with Rozenfeld) neither discloses nor suggests "a controlled device type station [that] monitors to determine whether the station which is AV connected to it has sent a logging-off message and, if yes, said station autonomously ends the setting up of the AV connection with the station which is logged off" as recited in claim 1 of

- 7 -

Serial No. 10/531,775   PD020097

the present invention. Gandhi does not disclose this feature of the present claimed invention for the same reasons stated above under "Rejection of Claims 1-3, 5-9 and 11 under 35 U.S.C. 102(b)." Independent claim 7 contains similar features to those discussed above, and thus, all remarks presented herein also apply to claim 7.

Similarly, Rozenfeld (with Gandhi) neither discloses nor suggests "a controlled device type station [that] monitors to determine whether the station which is AV connected to it has sent a logging-off message and, if yes, said station autonomously ends the setting up of the AV connection with the station which is logged off" as recited in claim 1 of the present invention. Rozenfeld is silent regarding controlled device type stations that monitoring AV connections. Therefore, Rozenfeld (with Gandhi) cannot discloses nor suggests "a controlled device type station [that] monitors to determine whether the station which is AV connected to it has sent a logging-off message and, if yes, said station autonomously ends the setting up of the AV connection with the station which is logged off" as recited in claim 1 of the present invention. Independent claim 7 contains similar features to those discussed above, and thus, all remarks presented herein also apply to claim 7.

Additionally, the applicant respectfully submits that there is no reason or motivation to combine Gandhi and Rozenfeld. Gandhi describes an adapter with an interface suitable to any specific service of a controlled device that converts and formats application calls to network data messages based on a data description of a protocol. Rozenfeld describes a method to generate, distribute and update customized network connection applications that operate to establish a connection between machines coupled via a network. While Gandhi is concerned with a connectivity model to bridge between object interfaces and the data messages exchanged with the controlled device over a network, Rozenfeld on the other hand, is concerned with network access tools customized to a user's preferences to provide for flexibility in selecting network dialer application properties. Therefore, Gandhi and Rozenfeld are concerned with completely different objectives and thus, there is no reason or motivation to combine Gandhi and Rozenfeld. Additionally, the objectives of Gandhi and Rozenfeld are unrelated to the objectives of the present claimed invention, namely

- 8 -

Serial No. 10/531,775   PD020097

to manage logical connections which have been set up in a network of distributed
stations through controlled devices which contain functionality that is normally
associated with a control point device (page 4, lines 4-24).

However, even if the systems of Gandhi and Rozenfeld were combined, the
combination would neither disclose nor suggest "a controlled device type station [that]
[that] monitors to determine whether the station which is AV connected to it has sent a
logging-off message and, if yes, said station autonomously ends the setting up of the
AV connection with the station which is logged off" as recited in claim 1 of the present
invention. The combined system would consist of a control point that receives GENA
event notifications from a controlled device. The control point would contain
customized network connection properties for creating AV connection between
controlled devices. The control point in the combined system is used for ending AV
connections. In contrast, the present claimed invention, after an initial AV connection is
created by a control point, utilizes a controlled device to monitor the AV connection
and to determine if the other connected station setup should be ended. The controlled
device in the present claimed invention contains monitoring and determining
functionalities that is normally associated solely with the control point (page 4, lines 4-
24). Therefore, the combination of Gandhi and Rozenfeld, similar to the individual
systems, neither discloses nor suggests "a controlled device type station [that] monitors
to determine whether the station which is AV connected to it has sent a logging-off
message and, if yes, said station autonomously ends the setting up of the AV
connection with the station which is logged off" as recited in claim 1 of the present
invention.

As claims 4 and 10 are dependent on independent claims 1 and 7, respectively,
it is respectfully submitted that they are allowable for the same reasons discussed above
regarding claims 1 and 7. Therefore, Gandhi in view of Rozenfeld, when taken alone or
in combination, neither disclose nor suggest "a controlled device type station [that]
monitors to determine whether the station which is AV connected to it has sent a
logging-off message and, if yes, said station autonomously ends the setting up of the